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| FORM PTO-1390 (Modified) U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE (REV. 7-2005) | | ATTORNEY'S DOCKET NUMBER 2597.004 (FP3037/GM) |
| TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 | | U.S. APPLICATION NO. (If known, see 37 CFR 1.5) 10/579946 |
| INTERNATIONAL APPLICATION NO. PCT/SG2004/000380 | INTERNATIONAL FILING DATE 22 November 2004 | PRIORITY DATE CLAIMED 21 November 2003 |
| TITLE OF INVENTION BIOABSORBABLE PLUG IMPLANTS AND METHOD FOR BONE TISSUE REGENERATION | | |
| APPLICANT(S) FOR DO/EO/US Swee Hin TEOH, Kim Cheng TAN, Dietmar HUTMACHER, Thiam Chye LIM, Jan-Thorsten SCHANTZ, and Ning CHOU | | |
| Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: | | |
| <ol style="list-style-type: none"> 1. <input checked="" type="checkbox"/> This is a FIRST submission of items concerning a submission under 35 U.S.C. 371. 2. <input type="checkbox"/> This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. 3. <input type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (24) indicated below. 4. <input checked="" type="checkbox"/> The US has been elected (Article 31). 5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371 (c)(2)) <ol style="list-style-type: none"> a. <input checked="" type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> has been communicated by the International Bureau. c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US). 6. <input type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). <ol style="list-style-type: none"> a. <input type="checkbox"/> is attached hereto. b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4). 7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3)) <ol style="list-style-type: none"> a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau). b. <input type="checkbox"/> have been communicated by the International Bureau. c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired. d. <input checked="" type="checkbox"/> have not been made and will not be made. 8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). 9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). 10. <input type="checkbox"/> An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)). 11. <input checked="" type="checkbox"/> A copy of the International Preliminary Examination Report (PCT/IPEA/409). 12. <input checked="" type="checkbox"/> A copy of the International Search Report (PCT/ISA/210). <p>Items 13 to 23 below concern document(s) or information included:</p> <ol style="list-style-type: none"> 13. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98. 14. <input type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 15. <input checked="" type="checkbox"/> A FIRST preliminary amendment. 16. <input type="checkbox"/> A SECOND or SUBSEQUENT preliminary amendment. 17. <input type="checkbox"/> A substitute specification. 18. <input type="checkbox"/> A power of attorney and/or change of address letter. 19. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821 - 1.825. 20. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4). 21. <input type="checkbox"/> A second copy of the English language translation of the International Application under 35 U.S.C. 154(d)(4). 22. <input checked="" type="checkbox"/> Express Mail Label No. EV 834383500 US | | |

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| U.S. APPLICATION NO (if known, see 37 CFR 1.5) <div style="font-size: 24pt; font-weight: bold; text-align: center;">10/579946</div> | INTERNATIONAL APPLICATION NO. <div style="font-weight: bold; text-align: center;">PCT/SG2004/000380</div> | ATTORNEY'S DOCKET NUMBER <div style="font-weight: bold; text-align: center;">2597.004 (FP3037/GM)</div> | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|------|--------------|-----------|----|------------|---|--------------|--------------|--|--|------------|--------------|--------------|------------|----------------------|-----------|----|-----------|--------------------|---------|---|------------|--|
| 23. Other items or information: 1) Return-Receipt Postcard; and 2) EFS Appl. Data Sheet (4 pages) | | | | | | | | | | | | | | | | | | | | | | | | | | |
| The following fees have been submitted: 24. <input checked="" type="checkbox"/> Basic national fee \$300 | | CALCULATIONS PTO USE \$ \$300.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| 25. <input type="checkbox"/> Examination fee (37 CFR 1.492(c)) If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article as an International Searching Authority. \$0 All other situations. \$200 | | \$ \$200.00 \$ \$0 | | | | | | | | | | | | | | | | | | | | | | | | |
| 26. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). . . \$0 Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the as an International Searching Authority. \$100 International Search Report prepared by an ISA other than the US and provided to the previously communicated to the US by the IB. \$400 All other situations. \$500 | | \$ \$400.00 \$ \$100 \$ \$400 \$ \$500 | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL OF 24, 25 and 26 = | | \$ \$900.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 20%;">Total Sheets</th> <th style="width: 20%;">Extra Sheets</th> <th style="width: 40%;">Number of each additional 50 or fraction thereof (round up to a whole)</th> <th style="width: 20%;">RATE</th> </tr> <tr> <td>79 - 100 =</td> <td>0 /50 =</td> <td>0</td> <td>x \$250.00</td> </tr> </table> | Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole) | RATE | 79 - 100 = | 0 /50 = | 0 | x \$250.00 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 20%;">Total Sheets</th> <th style="width: 20%;">Extra Sheets</th> <th style="width: 40%;">Number of each additional 50 or fraction thereof (round up to a whole)</th> <th style="width: 20%;">RATE</th> </tr> <tr> <td>79 - 100 =</td> <td>0 /50 =</td> <td>0</td> <td>x \$250.00</td> </tr> </table> | Total Sheets | Extra Sheets | Number of each additional 50 or fraction thereof (round up to a whole) | RATE | 79 - 100 = | 0 /50 = | 0 | x \$250.00 | \$ \$0.00 | | | | | | | | |
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| 79 - 100 = | 0 /50 = | 0 | x \$250.00 | | | | | | | | | | | | | | | | | | | | | | | |
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| 79 - 100 = | 0 /50 = | 0 | x \$250.00 | | | | | | | | | | | | | | | | | | | | | | | |
| Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)). | | \$ | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 20%;">CLAIMS</th> <th style="width: 20%;">NUMBER FILED</th> <th style="width: 20%;">NUMBER EXTRA</th> <th style="width: 20%;">RATE</th> </tr> <tr> <td>Total claims</td> <td>46 - 20 =</td> <td>26</td> <td>x \$50.00</td> </tr> <tr> <td>Independent claims</td> <td>2 - 3 =</td> <td>0</td> <td>x \$200.00</td> </tr> </table> | CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | Total claims | 46 - 20 = | 26 | x \$50.00 | Independent claims | 2 - 3 = | 0 | x \$200.00 | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 20%;">CLAIMS</th> <th style="width: 20%;">NUMBER FILED</th> <th style="width: 20%;">NUMBER EXTRA</th> <th style="width: 20%;">RATE</th> </tr> <tr> <td>Total claims</td> <td>46 - 20 =</td> <td>26</td> <td>x \$50.00</td> </tr> <tr> <td>Independent claims</td> <td>2 - 3 =</td> <td>0</td> <td>x \$200.00</td> </tr> </table> | CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | Total claims | 46 - 20 = | 26 | x \$50.00 | Independent claims | 2 - 3 = | 0 | x \$200.00 | \$ \$1,300.00 \$ \$0.00 |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | | | | | | | | | | | | | | | | | | | | | | |
| Total claims | 46 - 20 = | 26 | x \$50.00 | | | | | | | | | | | | | | | | | | | | | | | |
| Independent claims | 2 - 3 = | 0 | x \$200.00 | | | | | | | | | | | | | | | | | | | | | | | |
| CLAIMS | NUMBER FILED | NUMBER EXTRA | RATE | | | | | | | | | | | | | | | | | | | | | | | |
| Total claims | 46 - 20 = | 26 | x \$50.00 | | | | | | | | | | | | | | | | | | | | | | | |
| Independent claims | 2 - 3 = | 0 | x \$200.00 | | | | | | | | | | | | | | | | | | | | | | | |
| MULTIPLE DEPENDENT CLAIMS (if applicable) <input type="checkbox"/> + \$360.00 | | \$ \$0.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL OF ABOVE CALCULATIONS = | | \$ \$2,200.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| <input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by 1/2. | | \$ \$1,100.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| SUBTOTAL = | | \$ \$1,100.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). | | \$ \$0.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL NATIONAL FEE = | | \$ \$1,100.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40 per property + | | \$ \$0.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL FEES ENCLOSED = | | \$ \$1,100.00 | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Amount to be \$ | | | | | | | | | | | | | | | | | | | | | | | | |
| | | Amount to be \$ | | | | | | | | | | | | | | | | | | | | | | | | |

10/579946

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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- c. ☒ The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 08-1935. A duplicate copy of this sheet is enclosed.
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NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

VICTOR A. CARDONA
HESLIN ROTHENBERG FARLEY & MESITI P.C.
5 Columbia Circle
Albany, New York 12203
Telephone: 518-452-5600
Facsimile: 518-452-5579


SIGNATURE

VICTOR A. CARDONA

NAME

44,589

REGISTRATION NUMBER

Monday, May 22, 2006

DATE

10/579946

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Applicant: TEOH et al.

AP20 Rec'd PCT/PTO 22 MAY 2006

Serial No. Unassigned

Filing Date: Filed Herewith

Title: BIOABSORBABLE PLUG IMPLANTS AND METHOD FOR
BONE TISSUE REGENERATION

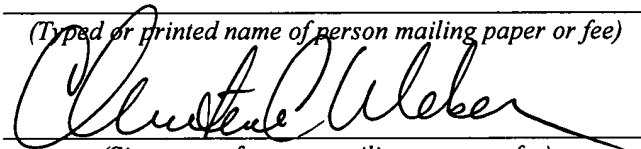
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I hereby certify that this paper is being deposited with the U.S. Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and addressed to MAIL STOP PCT, COMMISSIONER FOR PATENTS, P.O. BOX 1450, ALEXANDRIA, VIRGINIA 22313-1450

CHRISTINE C. WEBER

(Typed or printed name of person mailing paper or fee)



(Signature of person mailing paper or fee)

DOCUMENTS INCLUDED WITH THIS CERTIFICATE OF EXPRESS MAIL: EV 834383500 US

- * One (1) Acknowledgment Postcard;
- * Transmittal Letter to the United States Designated/Elected Office (DO/EO/US) Concerning a Submission Under 35 U.S.C. 371 (3 pages), with authorization to charge U.S. Deposit Account No. 08-1935 for filing fee in the amount of \$1,100.00;
- * Copy of International Publication Number WO 2005/04885 A1, published 2 June 2005, including cover pages (2 pages), Specification and 48 Claims (42 pages), Formal Drawings (FIGS. 31B / 32 pages); and International Search Report (3 pages) (79 pages total);
- * International Preliminary Report on Patentability (Form PCT/IPEA/409) with replacement pages 5, 11, 12, 13, 18 of specification, and replacement claims 1-83 (pages 38-46) (18 pages);
- * Unexecuted Declaration And Power Of Attorney (4 pages);
- * Preliminary Amendment Under 37 C.F.R. § 1.121(a), including Abstract (11 pages total);
- * Information Disclosure Citation (1 page), citing 7 references;, with copies of three international references.
- * EFS Application Data Sheet (4 Pages)